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# Manual Training

Ira M. Carley

Cora Champlin

The pupils who are studying woods will make a piece of apparatus for testing the breaking strength of the different varieties of wood. It has been decided to make the tests for determining the strength with weight at right angles to the grain with pieces 14 in. x  $\frac{1}{2}$  in. x  $\frac{1}{2}$  in.

The apparatus will consist of a base 16 in. x 4 in. x 1 in. At each end of this base, upright pieces 5 in. x 4 in. x  $1\frac{1}{2}$  in. are set and screwed firmly in position.

On the upper end of each upright, at the middle of the inner edge, a square rabbet  $\frac{1}{2}$  in. x  $\frac{1}{2}$  in. x  $\frac{1}{2}$  in. is chiseled to receive the ends of the stick to be tested.

Along the center line of the base a slot, 10 in. x  $\frac{1}{4}$  in., is cut to allow the passage of the cord by which the weight is suspended from the piece with which the experiment is being made.

The center point of the base is marked, and a scale of  $\frac{1}{4}$  inch is laid off along the edge of the slot from the center toward each end.

For furnishing and beautifying their recitation-room, the students of the High School have decided to make a screen and a settle.

The boys will do the wood and metal work, and the girls will make pillows for the settle and the panels for the screen. Both girls and boys will work on the designs of the two pieces, and on the working plans.

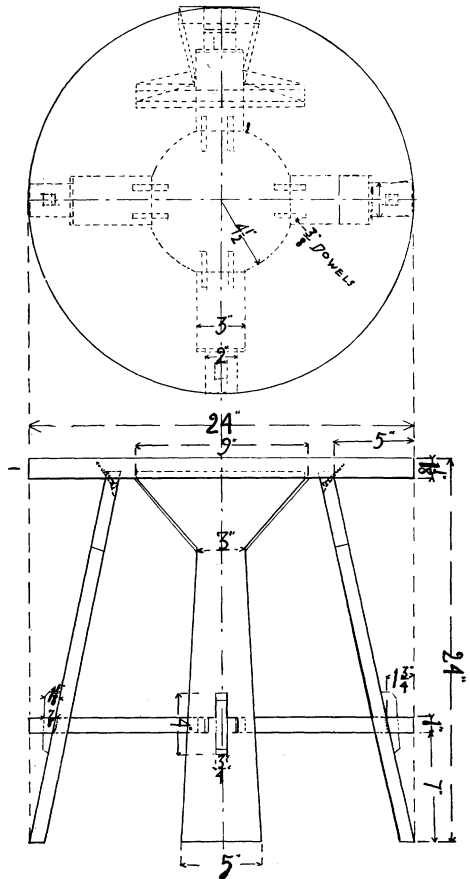
As yet only the general dimensions of the pieces, determined by the places they are to occupy, have been decided.

The first step in the work will be the making of a preliminary sketch giving the ideas of each pupil. The class will decide upon the most satisfactory one of these

sketches, and it will be modified and elaborated, with whatever advice may be necessary from the Manual Training and Art departments.

From the preliminary sketch, a picture large enough to be seen by the whole class will be made.

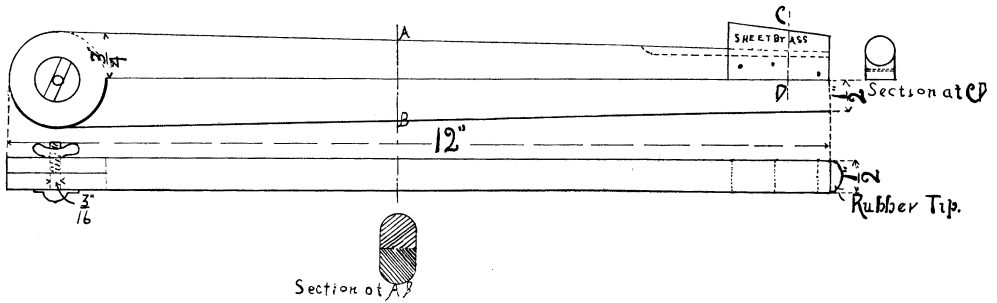
From this picture, and from whatever written specifications in addition may be necessary, the working plans will be made.



TABLE

Oak, stained brown or gray-green.

This plan is for use of the High School or Pedagogical students in the Arts and Crafts work.



## BLACKBOARD COMPASSES

Pencil compasses for blackboard drawing. To be made by 1st year High School students for use in geometrical drawing.

